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NOTICE OF ALLOWANCE AND FEE(S) DUE

25227 7590 12/01/2009

MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

EXAMINER

MIRZA, ADNAN M

ART UNIT

PAPER NUMBER

2445

DATE MAILED: 12/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,603	02/22/2002	Masakatsu Kiwada	325772028100	8470

TITLE OF INVENTION: IMAGE PROCESSING METHOD, IMAGE PROCESS SYSTEM, AND RELATED EQUIPMENT USED THEREIN INCLUDING PORTABLE TERMINAL, IMAGE FORMING DATA TRANSMITTING DEVICE AND IMAGE FORMING DEVICE, AS WELL AS IMAGE PROCESSING PROGRAM AND COMPUTER READABLE RECORDING MEDIUM THAT STORES SA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

25227 7590 12/01/2009

MORRISON & FOERSTER LLP
1650 TYSONS BOULEVARD
SUITE 400
MCLEAN, VA 22102

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/079,603 02/22/2002 Masakatsu Kiwada 325772028100 8470

TITLE OF INVENTION: IMAGE PROCESSING METHOD, IMAGE PROCESS SYSTEM, AND RELATED EQUIPMENT USED THEREIN INCLUDING PORTABLE TERMINAL, IMAGE FORMING DATA TRANSMITTING DEVICE AND IMAGE FORMING DEVICE, AS WELL AS IMAGE PROCESSING PROGRAM AND COMPUTER READABLE RECORDING MEDIUM THAT STORES SA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional NO \$1510 \$300 \$0 \$1810 03/01/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
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MIRZA, ADNAN M 2445 709-227000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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MORRISON & FOERSTER LLP 1650 TYSONS BOULEVARD SUITE 400 MCLEAN, VA 22102			MIRZA, ADNAN M	
			ART UNIT	PAPER NUMBER
			2445	
DATE MAILED: 12/01/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 717 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 717 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/079,603	KIWADA ET AL.	
	Examiner	Art Unit	
	ADNAN MIRZA	2445	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/24/2009.
2. ☒ The allowed claim(s) is/are 1,2,6-8,12-18,20-22,28,29,31,32,34,38,40 and 41.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|---|

/VIVEK SRIVASTAVA/
Supervisory Patent Examiner, Art Unit 2445

1 EXAMINER'S AMENDMENT

2
3 An Examiner's Amendment to the record appears below. Should the
4 changes and/or additions be unacceptable to applicants, an amendment
5 may be filed as provided by 37 CFR 1.312. To ensure consideration of
6 such an amendment, it must be submitted no later than the payment of the
7 issue fee.

8
9 Authorization for this Examiner's Amendment was given in a telephone
10 interview with Takamitsu Fujui on 11/17/09.

11
12 Please amend claims
13 1,2,7,8,13,15,17,18,21,22,28,29,32,34,38,40,41 and cancel claims
14 3,4,5,9-11,19,23,25-27,30,33,35-37,39.

15
16 **Listing of Claims**

17 1. (Currently Amended) An image processing method for printing images
18 on an image printing device based on a file stored in an image data transmission
19 device using a portable terminal, said image data transmission device connected
20 to a first internal network provided behind a first firewall, said image printing
21 device connected to a second internal network provided behind a second firewall,
22 and a file server connected to an external network provided outside of said first
23 firewall and said second firewall, comprising:

24 said portable terminal establishing a connection with said image data
25 transmission device via said second internal network, said second firewall, said
26 external network, said first firewall and said first internal network, wherein
27 establishing the connection comprises using a protocol which allows a first bi-
28 directional conn
29 ection between the first internal network and the external network and a
30 second bi-directional connection between the second internal network and the
31 external network;
32 said portable terminal transmitting an image printing request to said image
33 data transmission device, wherein said image printing request identifies said
34 stored file;
35 said image data transmission device receiving said image printing request
36 and preparing a print job to print images associated with said stored file in
37 response to said image printing request;
38 said image data transmission device establishing a connection with said
39 file server via said first internal network, said first firewall, and said external
40 network using a protocol which allows only uni-directional connections from the
41 first internal network to the external network at said first firewall;
42 said image data transmission device uploading said prepared print job to
43 said file server;
44 said file server transmitting a storage location data indicating where said
45 print job uploaded by said image data transmission device is stored on said file
46 server to said portable terminal,
47 said portable terminal receiving said storage location data which said file
48 server transmitted,

49 said portable terminal transferring said received storage location data to
50 said image printing device via said second internal network or a local
51 communication circuit,

52 said image printing device receiving said storage location data transferred
53 by said portable terminal,

54 said image printing device establishing a connection with said file server
55 via said second internal network, said second firewall, and said external network
56 using a protocol which allows only uni-directional connections from the second
57 internal network to the external network at said second firewall;

58 said image printing device downloading said prepared print job from the
59 storage location on said file server based on said storage location data; and

60 said image printing device printing images based on said downloaded print
61 job.

62 2. (Currently Amended) An image processing method according to claim
63 1 further comprising:

64 said portable terminal displaying said storage location data which said file
65 server transmitted.

66 3-4. (Cancelled)

67 5. (Cancelled)

68 6. (Previously Presented) An image processing method according to claim
69 1 wherein said image printing device is a printer.

70 7. (Currently Amended) An image processing method for forming an
71 image on an image printing device based on a file stored in an image data
72 transmission device using a portable terminal, said image data transmission
73 device connected to a first internal network constructed inside a first firewall, said
74 image printing device connected to a second internal network constructed inside a

75 second firewall, and a file server connected to an external network constructed on
76 the outside of said first firewall and said second firewall, comprising:

77 said portable terminal establishing a connection with said image data
78 transmission device via a public network, a public network authenticating server
79 connected to said first internal network, and said first internal network;

80 said portable terminal transmitting an image printing request for said file
81 stored in said image data transmission device to said image data transmission
82 device;

83 said image data transmission device receiving said image printing request
84 transmitted by said portable terminal and preparing a print job for said file
85 according to said image printing request;

86 said image data transmission device establishing a connection with said
87 file server via said first internal network, said first firewall, and said external
88 network using a protocol, which allows connections only from the first internal
89 network to the external network at said first firewall;

90 said image data transmission device uploads said prepared print job to said
91 file server;

92 said file server transmitting a storage location data indicating where said
93 print job uploaded by said image data transmission device is stored on said file
94 server to said portable terminal,

95 said portable terminal receiving said storage location data which said file
96 server transmitted,

97 said portable terminal transferring said received storage location data to
98 said image printing device via said second internal network or a local
99 communication circuit,

100 said image printing device receiving said storage location data transferred
101 by said portable terminal,

102 said image printing device establishing a connection with said file server
103 via said second internal network, said second firewall, and said external network
104 using a protocol, which allows connections only from the second network to the
105 external network at said second firewall;

106 said image printing device downloading said print job from the storage
107 location on said file server based on said storage location data; and

108 said image printing device forming said image based on said downloaded
109 print job.

110 8. (Currently Amended) An image processing method according to claim
111 7 further comprising:

112 said portable terminal displaying said storage location data which said file
113 server transmitted.

114 9-11. (Cancelled)

115 12. (Previously Presented) An image processing method according to
116 claim 7 wherein said image printing device is a printer.

117 13. (Currently Amended) An image processing system for forming an
118 image on an image printing device based on a file stored in an image data
119 transmission device, using a portable terminal, said image data transmission
120 device connected to a first internal network constructed inside a first firewall, said
121 image printing device connected to a second internal network constructed inside a
122 second firewall, and a file server connected to an external network constructed on
123 the outside of said first firewall and said second firewall, wherein:

124 said portable terminal comprises,

125 a first connection establisher to establish a connection with said image
126 data transmission device via said second internal network, said second firewall,
127 said external network, said first firewall and said first internal network using a
128 protocol, which allows bi-directional connections between the first internal
129 network and the external network at said first firewall and said second firewall,
130 and
131 an image printing request transmitter to transmit an image printing request
132 for said file stored in said image data transmission device to said image data
133 transmission device;
134 said image data transmission device comprises,
135 an image printing request receiver to receive said image printing request
136 from said portable terminal,
137 an print job preparer to prepare an print job for said file based on said
138 image printing request received by said image printing request receiver,
139 a second connection establisher to establish a connection with said file
140 server via said first internal network, said first firewall, and said external network
141 using a protocol, which allows connections only from the first internal network to
142 the external network at said first firewall, and
143 a print job uploader to upload said print job prepared by said print job
144 preparer to said file server; and
145 said image printing device comprises,
146 a third connection establisher to establish a connection with said file
147 server via said second internal network, said second firewall, and said external
148 network using a protocol, which allows connections only from the second internal
149 network to the external network at said second firewall,

150 a print job downloader to download said print job from said file server,
151 and
152 an image former to form said image based on said print job downloaded
153 by said print job downloader,
154 wherein said image processing system is so configured that
155 said file server transmits a storage location data indicating where said print
156 job uploaded by said print job uploader on said file server to said portable
157 terminal,
158 said portable terminal receives said storage location data which said file
159 server transmitted,
160 said portable terminal transfers said received storage location data to said
161 image printing device via said second internal network or a local communication
162 circuit,
163 said image printing device receives said storage location data transferred
164 by said portable terminal, and
165 said print job downloader downloads said print job from the storage
166 location on said file server based on said storage location data.

167 14. (Previously Presented) An image processing system according to
168 claim 13 wherein said image printing device is a printer.

169 15. (Currently Amended) An image processing system for forming an
170 image on an image printing device based on a file stored in an image data
171 transmission device, using a portable terminal, said image data transmission
172 device connected to a first internal network constructed inside a first firewall, said
173 image printing device connected to a second internal network constructed inside a
174 second firewall, and a file server connected to an external network constructed on
175 the outside of said first firewall and said second firewall, wherein

176 said portable terminal comprises,
177 a first connection establisher to establish a connection with said image
178 data transmission device via a public network, a public network authenticating
179 server connected to said first internal network, and said first internal network, and
180 an image printing request transmitter to transmit an image printing request
181 for said file stored in said image data transmission device to said image data
182 transmission device;
183 said image data transmission device comprises,
184 an image printing request receiver to receive said image printing request
185 from said portable terminal,
186 a print job preparer to prepare a print job for said file based on said image
187 printing request received by said image printing request receiving means,
188 a second connection establisher to establish a connection with said file
189 server via said first internal network, said first firewall, and said external network
190 using a protocol, which allows connections only from the first network to the
191 external network at said first firewall, and
192 a print job uploader to upload said print job prepared by said print job
193 preparing means to said file server; and
194 said image printing device comprises,
195 a third connection establisher to establish a connection with said file
196 server via said second internal network, said second firewall, and said external
197 network using a protocol, which allows connections only from the second internal
198 network to the external network at said second firewall,
199 a print job downloader to download said print job from said file server,
200 and

201 an image former to form said image based on said print job downloaded
202 by said print job downloader,
203 wherein said image processing system is so configured that
204 said file server transmits a storage location data indicating where said print
205 job uploaded by said print job uploader is stored on said file server to said
206 portable terminal,
207 said portable terminal receives said storage location data which said file
208 server transmitted,
209 said portable terminal transfers said received storage location data to said
210 image printing device via said second internal network or a local communication
211 circuit,
212 said image printing device receives said storage location data transferred
213 by said portable terminal, and
214 said print job downloader downloads said print job from the storage
215 location on said file server based on said storage location data.

216 16. (Previously Presented) An image processing system according to
217 claim 15 wherein said image printing device is a printer.

218 17. (Currently Amended) A portable terminal for forming an image on an
219 image printing device based on a file stored in an image data transmission device,
220 using said portable terminal, said image data transmission device connected to a
221 first internal network constructed inside a first firewall, said image printing device
222 connected to a second internal network constructed inside a second firewall, and a
223 file server connected to an external network constructed on the outside of said
224 first firewall and said second firewall, comprising:

225 a connection establisher to establish a connection with said image data
226 transmission device via said second internal network, said second firewall, said

227 external network, said first firewall and said first internal network using a
228 protocol, which allows bi-directional connections between the first network and
229 the external network at said first firewall and said second firewall; and
230 an image printing request transmitter to transmit an image printing request
231 for said file stored in said image data transmission device to said image data
232 transmission device,

233 wherein said portable terminal is so configured as to receive a storage
234 location data transmitted by said file server and indicating where a print job
235 uploaded by said image data transmission device is stored on said file server and
236 as to transfer said received storage location data to said image printing device via
237 said second internal network or a local communication circuit.

238 18. (Currently Amended) A portable terminal according to claim 17
239 further comprising:

240 a storage location data display to display said received storage location
241 data.

242 19. (Cancelled)

243 20. (Previously Presented) A portable terminal according to claim 17
244 wherein said image printing device is a printer.

245 21. (Currently Amended) A portable terminal for forming an image on an
246 image printing device based on a file stored in an image data transmission device,
247 using said portable terminal, said image data transmission device connected to a
248 first internal network constructed inside a first firewall, said image printing device
249 connected to a second internal network constructed inside a second firewall, and a
250 file server connected to an external network constructed on the outside of said
251 first firewall and said second firewall, comprising:

252 a connection establisher to establish a connection with said image data
253 transmission device via a public network, a public network authenticating server
254 connected to said first internal network, and said first internal network; and
255 an image printing request transmitter to transmit an image printing request
256 for said file stored in said image data transmission device to said image data
257 transmission device,

258 wherein said portable terminal is so configured as to receive a storage
259 location data transmitted by said file server and indicating where a print job
260 uploaded by said image data transmission device is stored on said file server and
261 as to transfer said received storage location data to said image printing device via
262 said second internal network or a local communication circuit.

263 22. (Currently Amended) A portable terminal according to claim 21
264 further comprising:

265 a storage location data display to display said received storage location
266 data received.

267 23. (Cancelled)

268 24. (Previously Presented) A portable terminal according to claim 17
269 wherein said image printing device is a printer.

270 25-27. (Cancelled)

271 28. (Currently Amended) An image printing device for forming an image
272 based on a file stored in an image data transmission device, using a portable
273 terminal, said image data transmission device connected to a first internal network
274 constructed inside a first firewall, said image printing device connected to a
275 second internal network constructed inside a second firewall, and a file server
276 connected to an external network constructed on the outside of said first firewall
277 and said second firewall, comprising:

278 a connection establisher to establish a connection with said file server via
279 said second internal network, said second firewall, and said external network
280 using a protocol, which allows connections only from the second internal network
281 to the external network at said second firewall;

282 a print job downloader to download from said file server a print job for
283 said file uploaded by said image data transmission device to said file server; and
284 an image printing device to form said image based on said print job
285 downloaded by said print job downloader,

286 wherein said printing device is so configured as to receive a storage
287 location data transferred by said portable terminal and indicating where a print job
288 uploaded by said print job uploader is stored on said file server, said storage
289 location data being transmitted to said portable terminal by said file server.

290 29. (Currently Amended) An image printing device according to claim
291 28 wherein said print job downloader downloads said print job from the storage
292 location on said file server based on said received storage location data.

293 30. (Cancelled)

294 31. (Previously Presented) An image printing device according to claim
295 28 wherein said image printing device is a printer.

296 32. (Currently Amended) A recording medium that stores a program to
297 control a portable terminal for forming an image on an image printing device
298 based on a file stored in an image data transmission device, using said portable
299 terminal, said image data transmission device connected to a first internal network
300 constructed inside a first firewall, said image printing device connected to a
301 second internal network constructed inside a second firewall, and a file server
302 connected to an external network constructed on the outside of said first firewall

303 and said second firewall, characterized in causing said portable terminal to
304 execute:

305 establishing a connection with said image data transmission device via
306 said second internal network, said second firewall, said external network, said
307 first firewall and said first internal network using a protocol, which allows bi-
308 directional connections between the first internal network and the external
309 network at said first firewall and said second firewall, [[and]]

310 transmitting an image printing request for said file stored in said image
311 data transmission device to said image data transmission device,

312 receiving a storage location data transmitted by said file server and
313 indicating where a print job uploaded by said image data transmission device is
314 stored on said file server, and

315 transferring said received storage location data to said image printing
316 device via said second internal network or a local communication circuit.

317 33. (Canceled).

318 34. (Currently Amended) A recording medium that stores a program to
319 control a portable terminal for forming an image on an image printing device
320 based on a file stored in an image data transmission device, using said portable
321 terminal, said image data transmission device connected to a first internal network
322 constructed inside a first firewall, said image printing device connected to a
323 second internal network constructed inside a second firewall, and a file server
324 connected to an external network constructed on the outside of said first firewall
325 and said second firewall, characterized in causing said portable terminal to
326 execute:

327 establishing a connection with said image data transmission device via a
328 public network, a public network authenticating server connected to said first
329 internal network, and said first internal network, [[and]]

330 transmitting an image printing request for said file stored in said image
331 data transmission device to said image data transmission device,

332 receiving a storage location data transmitted by said file server and
333 indicating where a print job uploaded by said image data transmission device is
334 stored on said file server, and

335 transferring said received storage location data to said image printing
336 device via said second internal network or a local communication circuit.

337 35-37. (Canceled).

338

339 38. (Currently Amended) A recording medium that stores a program to
340 control an image printing device for forming an image based on a file stored in an
341 image data transmission device, using a portable terminal, said image data
342 transmission device connected to a first internal network constructed inside a first
343 firewall, said image printing device connected to a second internal network
344 constructed inside a second firewall, and a file server connected to an external
345 network constructed on the outside of said first firewall and said second firewall,
346 characterized in causing said image printing device to execute:

347 establishing a connection with said file server via said second internal
348 network, said second firewall and said external network using a protocol, which
349 allows connections only from the second internal network to the external network
350 at said second firewall;

351 downloading from said file server a print job for said file uploaded by said
352 image data transmission device to said file server; [[and]]

353 printing based on said print job;
354 receiving a storage location data transferred by said file server and
355 indicating where a print job uploaded by said image data transmission device is
356 stored on said file server.

357 39. (Canceled).

358 40. (Currently Amended) A remote printing method, comprising:
359 providing a first network comprising an image storage device and a first
360 firewall, the image storage device being provided behind the first firewall;
361 providing a second network comprising a printing device and a second
362 firewall, the printing device being provided behind the second firewall;
363 providing an external network comprising a file server;
364 storing an image file in the image storage device;
365 forming a bi-directional connection between a portable terminal and the
366 image storage device, the bi-directional connection being formed through the
367 second network, the second firewall, the external network, the first firewall and
368 the first network;
369 transmitting a file reference request from the portable terminal to the
370 image storage device via the bi-directional connection;
371 transmitting file image information from the image storage device to the
372 portable device via the bi-directional connection in response to the file reference
373 request;
374 transmitting an image printing request from the portable terminal to the
375 image forming device via the bi-directional connection, the image printing request
376 comprising printing instructions;
377 forming a print job at the image storage device in response to the image
378 printing request;

379 forming a first uni-directional connection between the image storage
380 device and the file server through the first firewall;
381 transmitting the print job from the image storage device to the file server
382 via the first uni-directional connection;
383 storing the print job in the file server;
384 forming a second uni-directional connection between the file server and
385 the printing device through the second firewall;
386 transmitting the print job from the file server to the printing device via the
387 second uni-directional connection;
388 printing images using the printing device, the images being based on the
389 print job, wherein
390 said file server transmits a storage location data indicating where said print
391 job is stored on said file server to said portable terminal,
392 said portable terminal receives said storage location data which said file
393 server transmitted,
394 said portable terminal transfers said received storage location data to said
395 printing device via said second internal network or a local communication circuit,
396 said printing device receives said storage location data transferred by said
397 portable terminal, and
398 said printing device downloads said print job from said storage location on
399 said file server based on said storage location data.

400 41. (Currently Amended) A remote printing system, comprising:
401 a first network comprising an image storage device and a first firewall, the
402 image storage device being provided behind the first firewall and configured to
403 store an image file;

404 a second network comprising a printing device and a second firewall, the
405 printing device being provided behind the second firewall;
406 an external network comprising a file server; and
407 a portable terminal;
408 wherein the system is configured to form a bi-directional connection
409 between the portable terminal and the image storage device through the second
410 network, the second firewall, the external network, the first firewall and the first
411 network, such that
412 a file reference request may be transmitted from the portable terminal to
413 the image storage device via the bi-directional connection;
414 file image information may be transmitted from the image storage device
415 to the portable device via the bi-directional connection in response to the file
416 reference request; and
417 an image printing request may be transmitted from the portable terminal to
418 the image forming device via the bi-directional connection, the image printing
419 request comprising printing instructions;
420 wherein the image storage device is configured to form a print job at in
421 response to the image printing request;
422 wherein the system is further configured to form a first uni-directional
423 connection between the image storage device and the file server through the first
424 firewall and to transmit the print job from the image storage device to the file
425 server via the first uni-directional connection;
426 wherein the file server is configured to store the print job;
427 wherein the system is further configured to form a second uni-directional
428 connection between the file server and the printing device through the second

429 firewall and to transmit the print job from the file server to the printing device via
430 the second uni-directional connection; [[and]]

431 wherein the printing device is configured to print images based on the
432 print job;

433 wherein said file server is configured to transmit a storage location data
434 indicating where said print job is stored on said file server to said portable
435 terminal,

436 wherein said portable terminal is configured to receive said storage
437 location data which said file server transmitted,

438 wherein said portable terminal is configured to transfer said received
439 storage location data to said printing device via said second internal network or a
440 local communication circuit,

441 wherein said printing device is configured to receive said storage location
442 data transferred by said portable terminal, and

443 wherein said printing device is configured to download said print job from
444 said storage location on said file server based on said storage location data.

445
446

447 *Reasons for Allowance*

448

449 1. Claims 1-2,6-8,12-18,20-22,28-29,31,32,34,38,40,41 will be
450 allowed.

451

452 2. The following is an examiner's statement of reasons for allowance.

453 The prior art references most closely resembling the applicants
454 claimed invention are Gore, Jr et al (U.S. 5,826,029) and Lazaridis (U.S.
455 7,000,001).

456
457 First, Gore Jr disclosed a computer implemented method, uniquely
458 programmed computer system and article of manufacture embodying
459 computer readable program means all allow a customer on an external
460 network to initiate an authorized business transaction utilizing internal
461 business resources on an internal network without violating security walls.
462 However Gore Jr failed to disclose, “said file server transmitting a storage
463 location data indicating where said print job uploaded by said image data
464 transmission device is stored on said file server to said portable terminal,
465 said portable terminal receiving said storage location data which said file
466 server transmitted, said portable terminal transferring said received
467 storage location data to said image printing device via said second internal
468 network or a local communication circuit, said image printing device
469 receiving said storage location data transferred by said portable terminal ”.
470 These limitations are incorporated into all of the independent claims
471 (claims 1,7,13,15,17,21,28,32,34,38,40,41).

472
473 Second Lazaridis disclosed a bookmark beacon system comprises a
474 computer network a wireless network configured to enable a wireless
475 device to access the computer network, and a bookmark beacon that
476 transmits a bookmark data packet to the wireless device. However
477 Lazaridis failed to disclose ““said file server transmitting a storage location

478 data indicating where said print job uploaded by said image data
479 transmission device is stored on said file server to said portable terminal,
480 said portable terminal receiving said storage location data which said file
481 server transmitted, said portable terminal transferring said received
482 storage location data to said image printing device via said second internal
483 network or a local communication circuit, said image printing device
484 receiving said storage location data transferred by said portable terminal ”.
485 These limitations are incorporated into all of the independent claims
486 (claims1,7,13,15,17,21,28,32,34,38,40,41).

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In summary, the Examiner submits that Gore Jr and Lazaridis taught all the limitations of independent claims in combination with other elements. Specifically prior art does not teach "said file server transmitting a storage location data indicating where said print job uploaded by said image data transmission device is stored on said file server to said portable terminal, said portable terminal receiving said storage location data which said file server transmitted, said portable terminal transferring said received storage location data to said image printing device via said second internal network or a local communication circuit, said image printing device receiving said storage location data transferred by said portable terminal; therefore, claims 1-2,6-8,12-18,20-22,28-29,31,32,34,38,40,41 have been deemed allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adnan Mirza whose telephone number is (571) 272-3885. The examiner can normally be reached on Monday through Friday from 9:30 A.M. to 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Vivek Srivastava can be reached on (571)-272-7304. The fax phone

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numbers for the organization where this application or proceeding is assigned are listed herein below.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)746-7239. Customer service number is (866) 217-9197.

/VIVEK SRIVASTAVA/

Supervisory Patent Examiner, Art Unit 2445